AMENDMENTS TO THE CLAIMS

Please amend the following Claims.

1. **(Currently Amended)** A method of performing transluminal mitral annuloplasty, comprising the steps of:

providing a catheter, having a prosthesis thereon;

inserting the catheter into the venous system;

transluminally advancing the prosthesis into the coronary sinus; and

rotating a component of the prosthesis to cause the prosthesis to exert a compressive force on ~~the~~ adjacent atrial musculature.

2. **(Currently Amended)** ~~**A method as in**~~ The method of Claim 1, further comprising the step of percutaneously accessing the venous system prior to the transluminally advancing step.

3. **(Currently Amended)** ~~**A method as in**~~ The method of Claim 2, wherein the accessing step is accomplished by accessing one of the veins selected from the group consisting of internal jugular, subclavian and femoral veins.

4. **(Currently Amended)** ~~**A method as in**~~ The method of Claim 1, further comprising the steps of first measuring the coronary sinus and then selecting an appropriately sized prosthesis prior to the inserting step.

5. **(Currently Amended)** ~~**A method as in**~~ The method of Claim 1, further comprising the step of measuring hemodynamic function following the rotating step.

6. **(Currently Amended)** ~~**A method as in**~~ The method of Claim 5, further comprising the steps of determining an ongoing drug therapy taking into account the post implantation hemodynamic function.

7. **Withdrawn**

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23. **(New)** The method of Claim 1, wherein the rotating a component step causes the prosthesis to bend into an arcuate configuration.

24. **(New)** The method of Claim 23, further comprising the step of locking the prosthesis in the arcuate configuration.

25. **(New)** The method of Claim 24, wherein the locking step comprises engaging a first threaded surface with a second threaded surface.

26. **(New)** The method of Claim 24, wherein the locking step comprises providing an interference fit.

27. **(New)** The method of Claim 24, wherein the locking step comprises providing an adhesive bond.

28. **(New)** The method of Claim 24, wherein the locking step comprises providing a knot.

29. **(New)** The method of Claim 24, wherein the locking step comprises providing a compression fit.

30. **(New)** The method of Claim 1, further comprising the step of deploying the prosthesis in the coronary sinus.

31. **(New)** The method of Claim 30, further comprising the step of removing the catheter from the venous system.

32. **(New)** The method of Claim 1, additionally comprising the step of monitoring hemodynamic function to assess mitral valve regurgitation.

33. **(New)** The method of Claim 32, wherein the monitoring step comprises monitoring hemodynamic function prior to the rotating step.

34. **(New)** The method of Claim 32, wherein the monitoring step comprises monitoring hemodynamic function during the rotating step.

35. **(New)** The method of Claim 32, wherein the monitoring step comprises monitoring hemodynamic function following the rotating step.

36. **(New)** The method of Claim 32, wherein the rotating step results in axially moving a forming element with respect to the prosthesis, to bend the prosthesis.

37. **(New)** The method of Claim 32, wherein the transluminally advancing step is accomplished using a catheter.

38. **(New)** The method of Claim 32, further comprising the steps of first measuring the coronary sinus and then selecting an appropriately sized prosthesis prior to the inserting step.

39. **(New)** The method of Claim 32, wherein the step of monitoring hemodynamic function is accomplished using transesophageal echo cardiography.

40. **(New)** The method of Claim 32, wherein the step of monitoring hemodynamic function is accomplished using surface echo cardiographic imaging.

41. **(New)** The method of Claim 32, wherein the step of monitoring hemodynamic function is accomplished using intracardiac echo cardiographic imaging.

42. **(New)** The method of Claim 32, wherein the step of monitoring hemodynamic function is accomplished using fluoroscopy with radiocontrast media.

43. **(New)** The method of Claim 32, wherein the step of monitoring hemodynamic function is accomplished using left atrial or pulmonary capillary wedge pressure measurements.

44. **(New)** The method of Claim 32, further comprising the step of tightening the prosthesis to reduce regurgitation.

45. **(New)** The method of Claim 44, wherein the tightening step is performed to achieve at least a one grade reduction in regurgitation.

46. **(New)** A method of performing transluminal mitral annuloplasty, comprising the steps of:

providing a catheter, having a prosthesis thereon;

inserting the catheter into the venous system;

transluminally advancing the prosthesis into the coronary sinus;

rotating a first component of the prosthesis with respect to a second component of the prosthesis; and

releasing the prosthesis from the catheter, such that the prosthesis exerts a force on the wall of the coronary sinus.

47. **(New)** The method of Claim 46, further comprising the step of percutaneously accessing the venous system prior to the transluminally advancing step.

48. **(New)** The method of Claim 47, wherein the accessing step is accomplished by accessing one of the veins selected from the group consisting of internal jugular, subclavian and femoral veins.

49. **(New)** The method of Claim 46, further comprising the steps of first measuring the coronary sinus and then selecting an appropriately sized prosthesis prior to the inserting step.

50. **(New)** The method of Claim 46, further comprising the step of measuring hemodynamic function following the rotating step.

51. **(New)** The method of Claim 50, further comprising the step of determining an ongoing drug therapy taking into account post implantation hemodynamic function.

52. **(New)** The method of Claim 46, further comprising the step of changing the shape of the prosthesis from an implantation configuration to a remodeling configuration in response to the rotating step.

53. **(New)** The method of Claim 52, wherein the prosthesis is reversibly movable between an implantation configuration for transluminal implantation and a remodeling configuration for exerting a force against a vessel wall.

54. **(New)** The method of Claim 52, wherein the prosthesis defines an arc when in the remodeling configuration.

55. **(New)** The method of Claim 54, wherein the changing the shape step comprises forming an arc which is concave in the direction of the mitral valve.

56. **(New)** The method of Claim 54, wherein a best fit constant radius curve corresponding to the arc has a radius within the range of from about 10 mm to about 20 mm.

57. **(New)** The method of Claim 46, further comprising the step of retaining the body in a remodeling configuration following the rotating step.

58. **(New)** The method of Claim 57, wherein the retaining step comprises engaging a lock on the prosthesis.

59. **(New)** The method of Claim 58, wherein the lock comprises an interference fit.

60. **(New)** The method of Claim 58, wherein the lock comprises a ratchet.

61. **(New)** The method of Claim 58, wherein the lock comprises an engagement surface, which is movable between a first, disengaged configuration and a second, engaged configuration.

62. **(New)** The method of Claim 58, wherein the lock is biased in a locked direction.

63. **(New)** The method of Claim 58, wherein the lock is biased in an unlocked direction.

64. **(New)** The method of Claim 46, further comprising a coating on the prosthesis.

65. **(New)** The method of Claim 46, further comprising the step of deploying an anchor for retaining the prosthesis at a deployment site within a vessel.

66. **(New)** The method of Claim 65, wherein the anchor comprises a distal extension of the implant.

67. **(New)** The method of Claim 65, wherein the anchor comprises a friction enhancing surface structure for engaging the wall of the vessel.

68. **(New)** The method of Claim 65, wherein the deploying an anchor step comprises deploying at least one barb for piercing the wall of the vessel.

69. **(New)** The method of Claim 46, wherein the prosthesis has an axial length of no more than about 10 cm.

70. **(New)** The method of Claim 46, wherein the maximum cross sectional ~~dimension~~ area through the implant is no more than about ~~10~~ 15 mm^2.

71. **(New)** The method of Claim 46, additionally comprising the step of monitoring hemodynamic function to assess mitral valve regurgitation.

72. **(New)** The method of Claim 71, wherein the monitoring step comprises monitoring hemodynamic function prior to the rotating step.

73. **(New)** The method of Claim 71, wherein the monitoring step comprises monitoring hemodynamic function during the rotating step.

74. **(New)** The method of Claim 71, wherein the monitoring step comprises monitoring hemodynamic function following the rotating step.

75. **(New)** The method of Claim 46, further comprising the step of locking the prosthesis to retain a compressive force on the annulus following the manipulating step.

76. **(New)** The method of Claim 71, wherein the step of monitoring hemodynamic function is accomplished using transesophageal echo cardiography.

77. **(New)** The method of Claim 71, wherein the step of monitoring hemodynamic function is accomplished using surface echo cardiographic imaging.

78. **(New)** The method of Claim 71, wherein the step of monitoring hemodynamic function is accomplished using intracardiac echo cardiographic imaging.

79. **(New)** The method of Claim 71, wherein the step of monitoring hemodynamic function is accomplished using fluoroscopy with radiocontrast media.

80. **(New)** The method of Claim 71, wherein the step of monitoring hemodynamic function is accomplished using left atrial or pulmonary capillary wedge pressure measurements.

81. **(New)** The method of Claim 71, further comprising the step of determining an ongoing drug therapy taking into account post implantation hemodynamic function.